

### Weekly Influenza Summary:

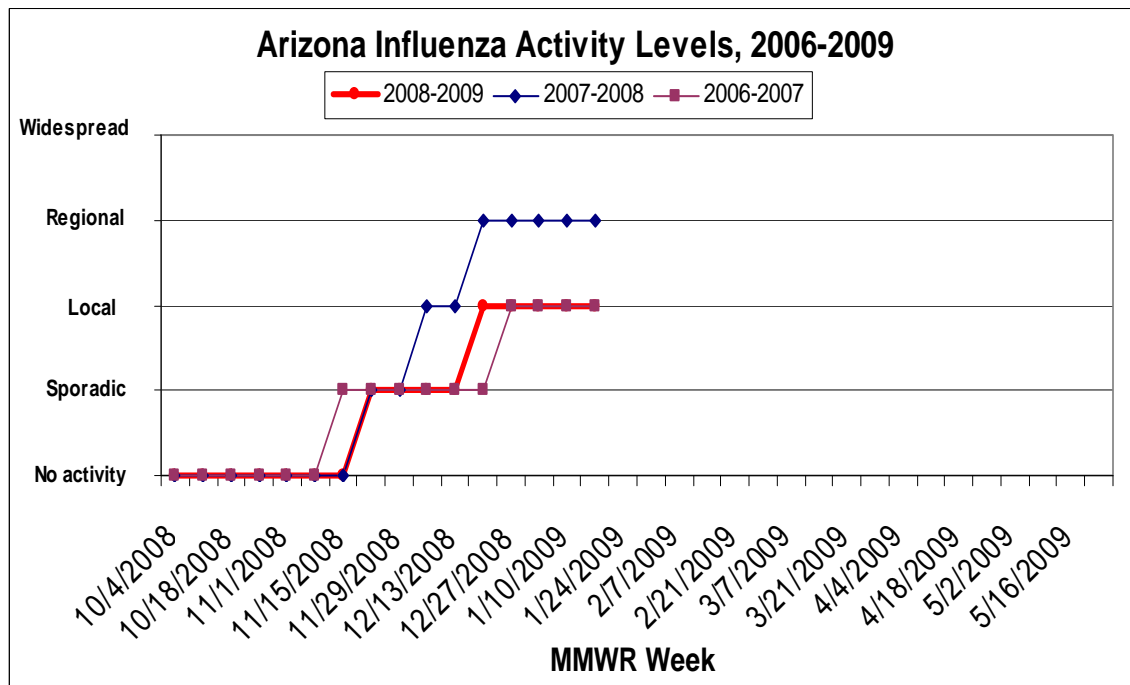
As of 1/20/2009, a total of 70 laboratory-confirmed cases of influenza were reported to ADHS for the 2008-09 season, and Arizona is reporting local influenza activity to CDC for the week ending 1/17/2009. Cases have been reported from ten counties (Cochise, Coconino, Gila, Graham, La Paz, Maricopa, Navajo, Pima, Pinal, and Yavapai). The influenza-like-illness rate is higher than the state baseline for week 1. No pediatric influenza-associated deaths have been reported to ADHS.

Data in this report are provisional and may change as more reports are received.

National influenza surveillance data are available at the CDC's Influenza Surveillance site (<http://www.cdc.gov/flu/weekly/fluactivity.htm>).

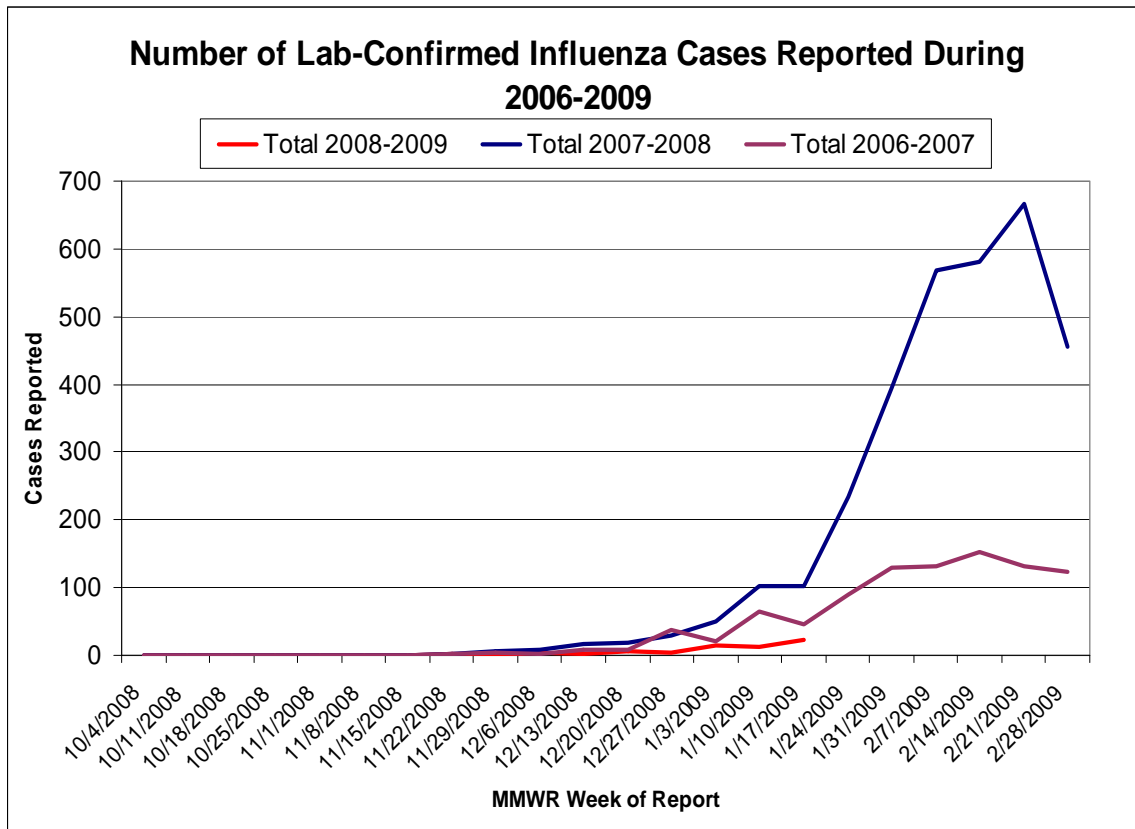
### Arizona Influenza Activity Levels:

The graph below shows the influenza activity levels reported to the CDC for this season only. For week 2, Arizona reported local activity. Definitions of these reporting categories can be found at Definitions: <http://www.cdc.gov/flu/weekly/fluactivity.htm>.



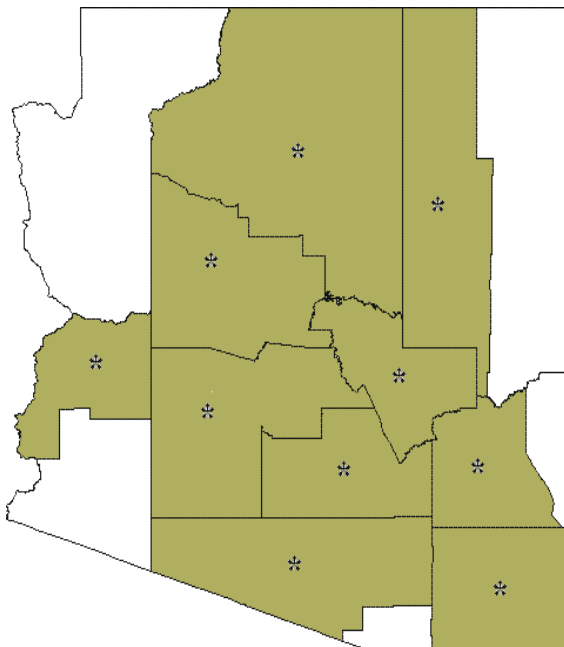
### Laboratory-Confirmed Influenza Activity by Season [2006-2009]:

Arizona laboratories report positive influenza tests to ADHS. The positive cases are counted by the date of report to ADHS.



#### Laboratory-Confirmed Influenza Activity by County:

Arizona laboratories report positive influenza tests to ADHS. The positive cases are counted by the county of residence.



#### Key:

\* = Any activity reported this season

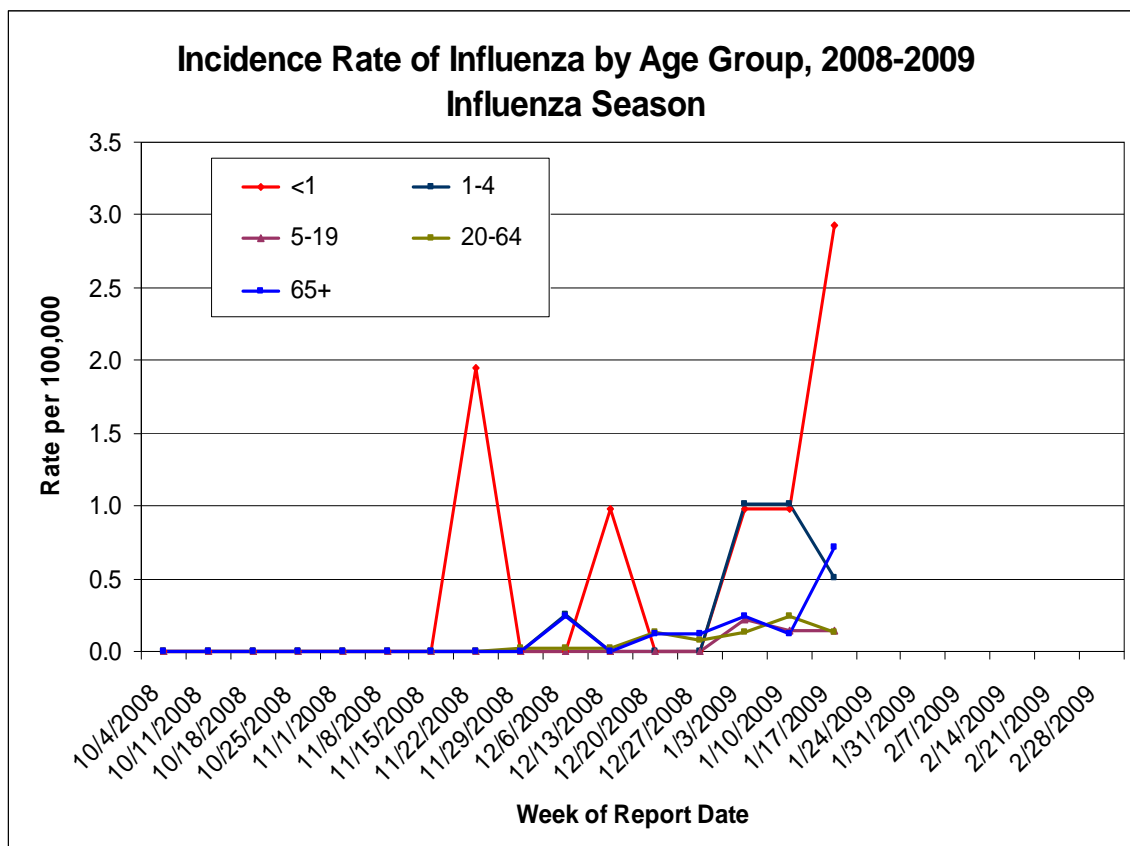
**Green** = Activity reported in the previous three weeks

**White** = No activity reported in the previous three weeks

County	Number of Laboratory-Confirmed Cases		
	2008-2009 Season	Last Week	Last 3 Weeks
Apache	0	0	0
Cochise	4	3	4
Coconino	10	3	7
Gila	1	0	1
Graham	4	0	4
Greenlee	0	0	0
La Paz	1	0	1
Maricopa	35	13	21
Mohave	0	0	0
Navajo	2	0	1
Pima	10	3	9
Pinal	1	1	1
Santa Cruz	0	0	0
Yavapai	2	1	2
Yuma	0	0	0
Unknown	0	0	0
<b>Total</b>	<b>70</b>	<b>24</b>	<b>51</b>

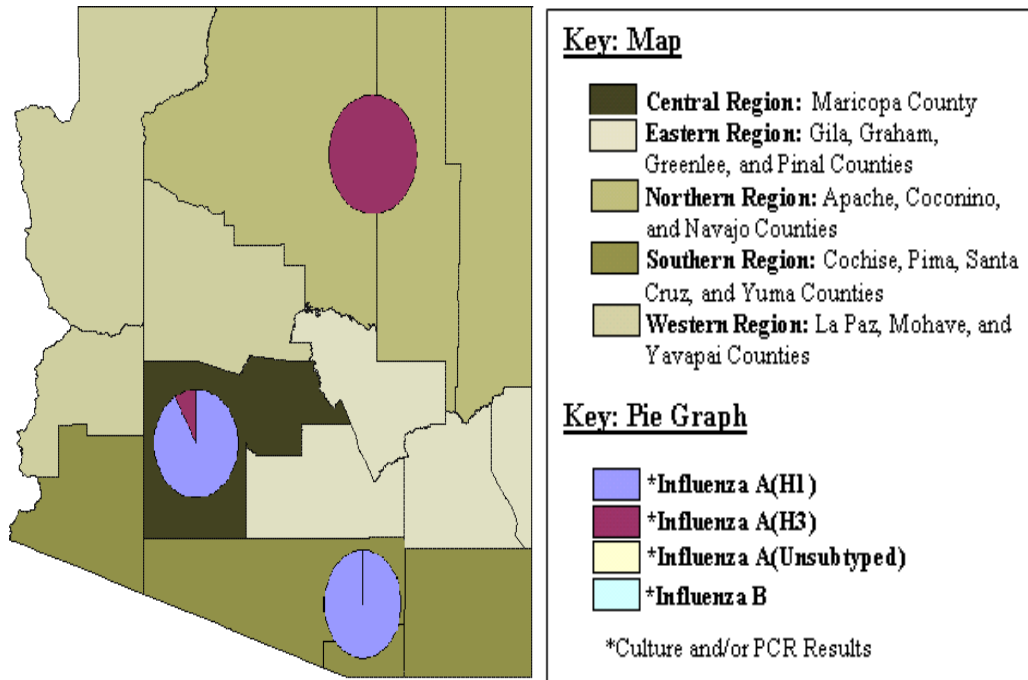
### Laboratory-Confirmed Influenza Activity by Age Group:

Laboratories report positive influenza tests to ADHS.

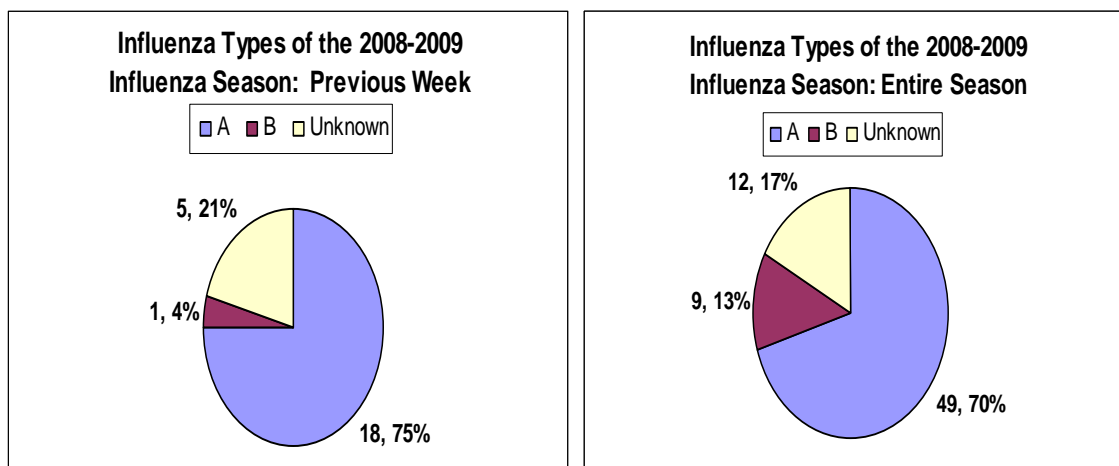


### Laboratory Surveillance:

Laboratories report positive influenza tests to ADHS. Data are then compiled based on influenza type from all positive laboratory tests.



The results above show culture and/or PCR results reported to ADHS from the Arizona State Laboratory or other laboratories across the state during the previous three weeks or from December 28<sup>th</sup> through the 17<sup>th</sup> of January. The northern region reported 1 (100%) influenza A(H3) during this time. The southern region reported 1 (100%) influenza A(H1) during the previous three weeks. Whereas, the central region reported 11 (92%) influenza A(H1) and 1 (8%) influenza A/(H3) during the given time period.



The pie charts above show all lab-confirmed cases of influenza in the noted time periods.

	Season (2008-2009)	Percent Total (2008-2009)	Season (2007-2008)	Percent Total (2007-2008)	Season (2006-2007)	Percent Total (2006-2007)
<b>Total*</b>	70	100%	5168	100%	1663	100%
<b>Influenza A*</b>	49	70%	2898	56%	1116	67%
A/H1 †	17	24%	184	4%	235	14%
A/H3 †	2	3%	234	5%	31	2%
A/Unsubtyped †	0	0%	257	5%	185	11%
<b>Influenza B*</b>	9	13%	1900	37%	355	21%
B/Malaysia †	0	0%	0	0%	38	2%
B/Shanghai †	0	0%	181	4%	5	1%
B/Unsubtyped †	0	0%	325	6%	120	7%
<b>Unknown*</b>	12	17%	370	7%	192	12%

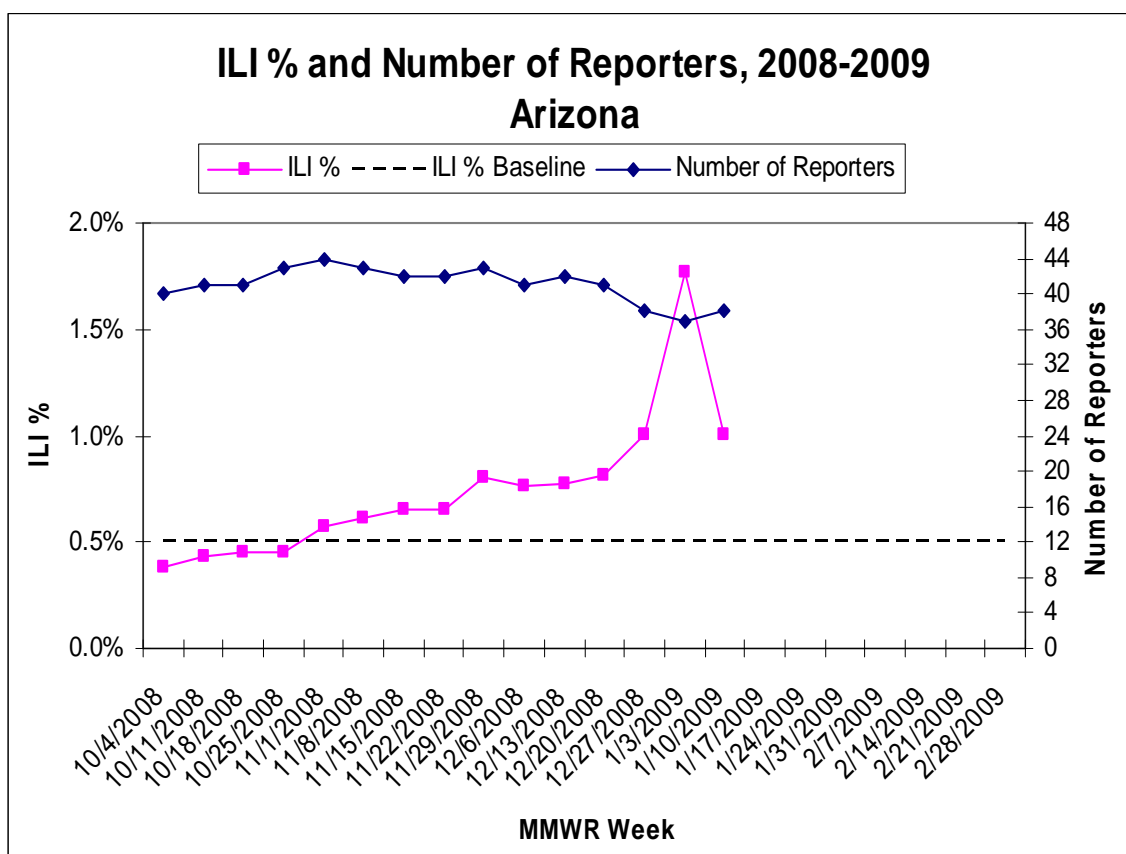
\* Data for the bolded categories include all tests.

† Data for the subcategories include only culture and PCR tests conducted at the Arizona State Laboratory or other reporting laboratories.

### Influenza-Like Illness (ILI) Surveillance from Sentinel Providers

The proportion of patient visits to sentinel providers for ILI in the state was 1.0% for the week ending 1/10/2009 (week 1). This value is higher than the state baseline of 0.5%. As of 1/20/2009, 38 sentinel providers reported by the end of week 1.

ILI is defined as a fever of at least 100°F plus either a cough or a sore throat.

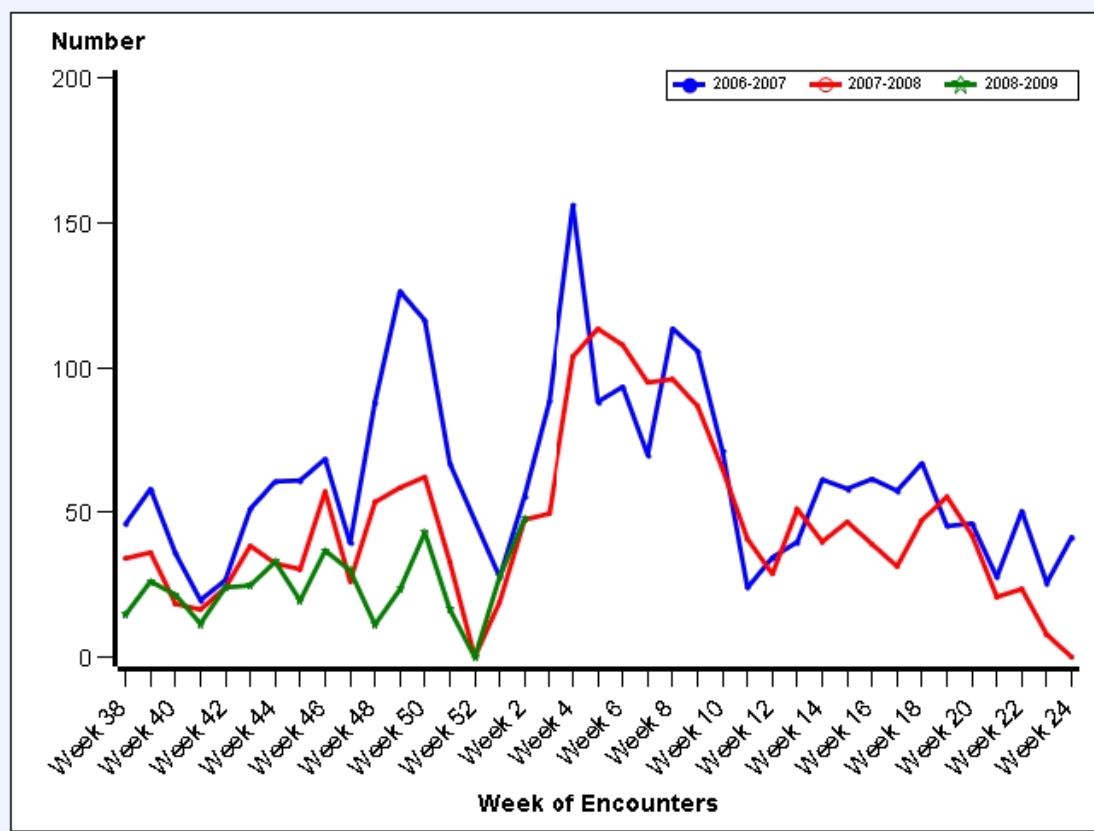


### Influenza-Like Illness (ILI) Surveillance from Participating Arizona Schools

ADHS and the Arizona School Nurse Consortium (AZSNC) developed and implemented a software program called Child Health Indicator Program (CHIP) to assist school nurses in electronic management of student health records. Currently, nurses in 331 Arizona schools use the software to collect information on student health conditions for 266 nursing diagnosis codes, including influenza-like illness (ILI), rash, and gastrointestinal illness (GI).

The graph presents the weekly trend of ILI syndromes reported among students during the school years of 2006-2007, 2007-2008, and 2008-2009. The number of school nurse encounters are not diagnosed cases of communicable diseases but are based on the nursing codes that school nurses enter to track student conditions. Also, the numbers in the graph are only from schools that used CHIP during the school year.

### Influenza-Like Illness Per School Enrollment in Arizona (per 100,000)



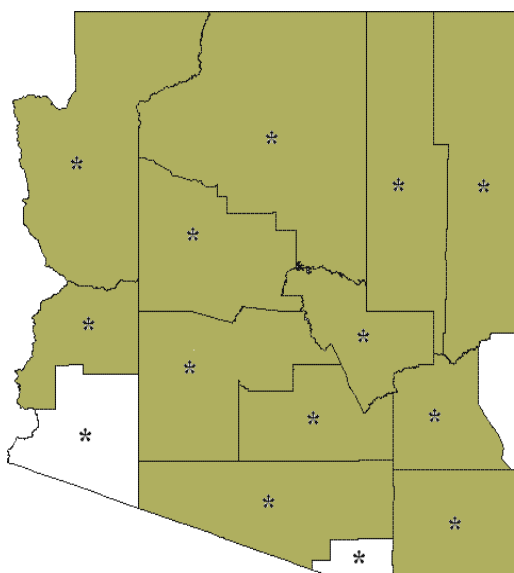
*Please see the following pages for the weekly RSV summary.*

**Weekly RSV Summary:**

As of 1/20/2009, 436 lab-confirmed cases were reported to ADHS during the 2008-2009 season.

**Lab-Confirmed RSV Cases Reported by County:**

Since October 2004, laboratories have been required to report positive RSV tests to ADHS.



**Key:**

\* = Any activity reported this season

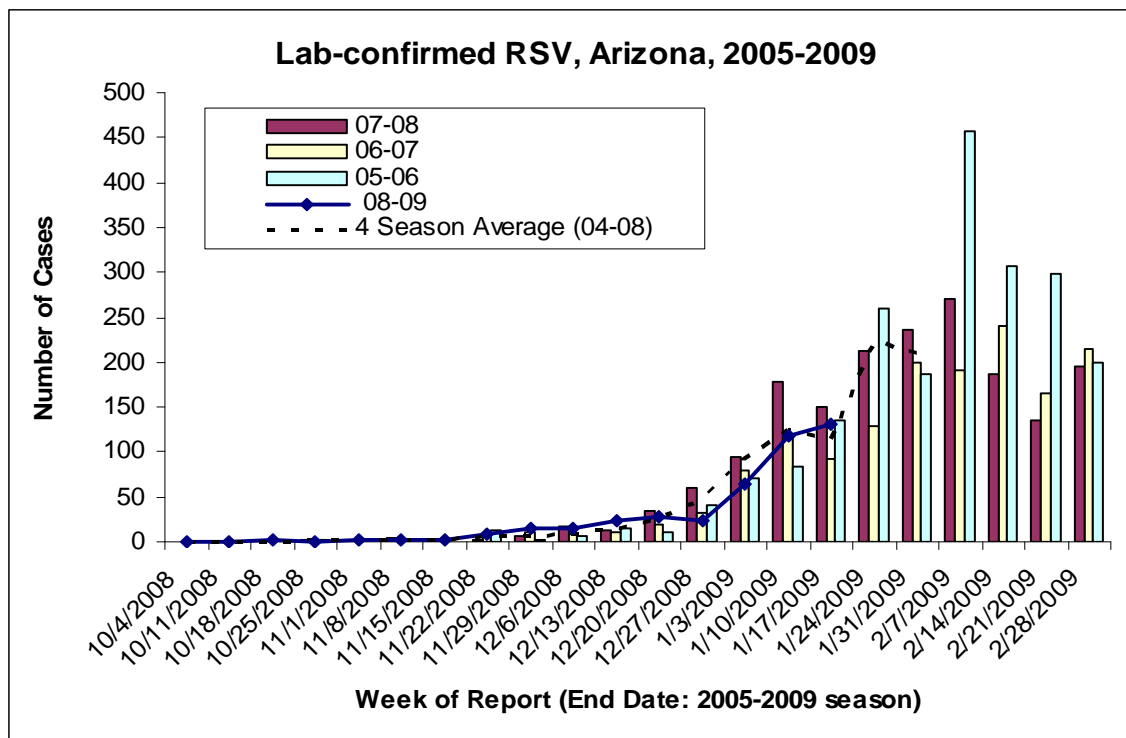
**Green** = Activity reported in the previous three weeks

**White** = No activity reported in the previous three weeks

County	Number of Laboratory-Confirmed Cases		
	2008-2009 Season	Last Week	Last 3 Weeks
Apache	3	3	3
Cochise	10	5	8
Coconino	12	0	5
Gila	2	2	2
Graham	4	0	4
Greenlee	0	0	0
La Paz	5	1	2
Maricopa	286	93	215
Mohave	11	3	5
Navajo	2	1	2
Pima	84	13	55
Pinal	12	8	10
Santa Cruz	1	0	0
Yavapai	1	0	1
Yuma	1	0	0
Unknown	2	1	2
<b>Total</b>	436	130	314

### Laboratory Surveillance:

Laboratories report positive RSV tests to ADHS.



### Laboratory-Confirmed RSV Activity by Age and Gender:

Laboratories report positive RSV tests to ADHS.

